What is Claimed is:

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- A peptide analog of lung surfactant protein B comprising:

 a dimer of a synthetic peptide from an N-terminal domain of mammalian lung

 surfactant protein B.
- 2. A peptide analog of claim 1 wherein the analog is a dimer of the N-terminal domain of amino acid residues 1-25.
 - 3. The peptide analog of claim 1 wherein an amino acid residue 11 is alanine.
 - 4. The peptide analog of claim 1 having a Cys 8 to Cys 8 disulfide link.
 - 5. The peptide analog of claim 1 wherein the mammal is a human.
- 6. A method to treat respiratory distress syndrome comprising:

 administering a pharmaceutically compatible composition comprised of a dimer of a synthetic peptide from an N-terminal domain of lung surfactant protein B.
- 7. The method of claim 6 wherein the pharmaceutically compatible composition is
 20 further comprised of administering an animal-derived lung surfactant protein.

- 8. The method of claim 7 wherein the animal-derived lung surfactant protein is a porcine lung lavage extract.
- 9. The method of claim 7 wherein the animal-derived lung surfactant protein is a5 calf lung lavage surfactant.
 - 10. The method of claim 7 wherein the animal-derived lung surfactant protein is a bovine lung extract.
- 10 11. The method of claims 6, 7, 8, 9 or 10 wherein the pharmaceutical compatible composition is further comprised of a phospholipid.
 - 12. The method of claim 11 wherein the phospholipid is dipalmitoylphosphatidylcholine.

13. A pharmaceutical composition comprising:

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a peptide analog comprised of a dimer of synthetic peptide from an N-terminal domain of lung surfactant protein-B; and

an animal-derived lung surfactant.

14. The pharmaceutical composition of claim 13 wherein the peptide analog is human SP-B1-25.

- 15. The pharmaceutical composition of claim 13 wherein the peptide analog is a Cys 11 to Ala 11 variant of SP-B1-25.
- 5 16. The pharmaceutical composition of claims 13, 14 or 15 further comprising a phospholipid.
 - 17. A peptide analog of mammalian lung surfactant protein B comprising:

 a dimer of lung surfactant protein B having a Cys 8 to Cys 8 disulfide link.
 - 18. The peptide analog of claim 17 wherein the dimer is a homodimer.

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19. The peptide analog of claim 1 wherein the dimer is a homodimer.